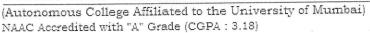


## Shri Vile Parle Kelavani Mandal's

## DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING





Academic Year (2022-23) Year: 3 Semester: V

Program: B. Tech. (IT)

Subject: Development Frameworks

Date: Jan 3, 2023

Max. Marks: 75

Time: 10:30 am to 1:30 pm

**Duration: 3 Hours** 

## REGULAR EXAMINATION

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover page of the Answer Book, which is provided for their use.

- (1) This question paper contains two pages.
- (2) All Questions are Compulsory.
- (3) All questions carry equal marks.
- (4) Answer to each new question is to be started on a fresh page.
- (5) Figures in the brackets on the right indicate full marks.
- (6) Assume suitable data wherever required but justify it.
- (7) Draw the neat, labelled diagrams, wherever necessary.

Question		Max.Marks
<b>No.</b> Q1 (a)	Discuss the disadvantages of Agile Model of software developments	[05]
	OR Discuss the advantages of using Microservices	[05]
Q1 (b)	Consider a scenario where you are working on a migration project where requirements will be the same only platform or languages may vary / change. Which software development model should be used. Discuss the same in detail.	[10]
Q2 (a)	List agile manifesto and discuss the various principles.  OR	[10]
	Discuss the Five events in Scrum?	[10]
Q2 (b)	Discuss whether loose or tight coupling should be preferred while programming.	[05]
Q3 (a)	Discuss the benefits of using serverless architecture.	[10]
Q3 (b)	Analyze Micro Frontend Architecture should share a backend or not?	[05]
	Differentiate between message driven and event driven architecture.	[05]
Q4 (a)	Explain what Dependency Injection is and in how many ways Dependency Injection can be done. Discuss with example?  OR	[10]
	Explain Event handling in Spring with suitable example of custom event.	[10]
Q4 (b)	List the different component of reactive manifesto and discuss them.	[05]



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(Autonomous College Affiliated to the University of Mumbai) NAAC Accredited with "A" Grade (CGPA: 3.18)

Q5 (a)	Discuss the Open Close Principle (OCP) with example.	[10]
Q5 (b)	Explain what are the different components of a Spring application?	[05]
	OR	
	Discuss why is Spring preferred over the other frameworks?	[05]